

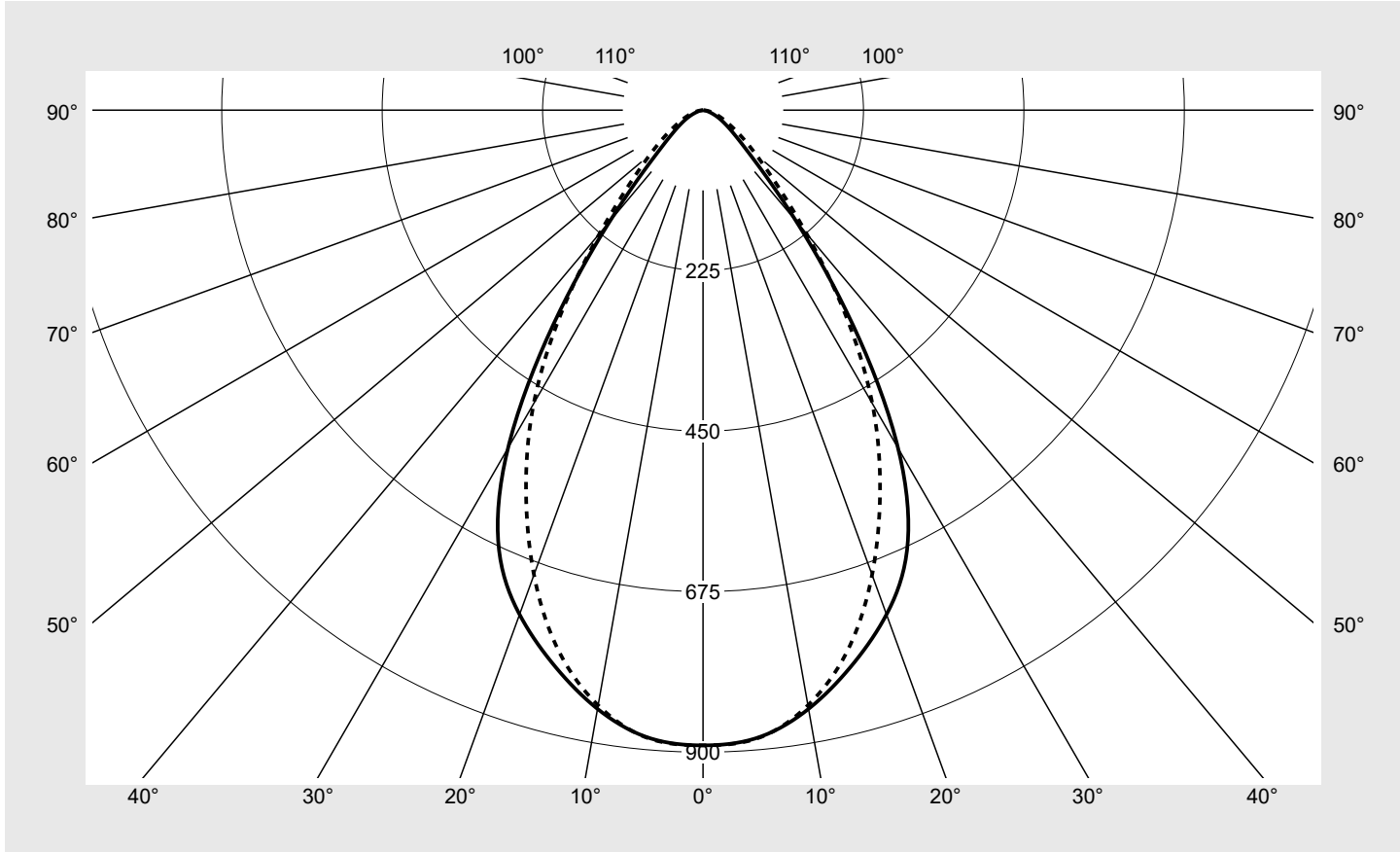


# Photometric test report

<b>Family</b> <b>Licross® 11 Recessed</b>	<b>Order number: 51TL18VN455F</b> <b>EAN: 4058352466391</b>	<b>LP number</b> <b>58691_49</b>
	<b>Version</b> cover frosted, wide distribution, high visual comfort	<b>serial documentation</b> <b>04.12.2020</b>
	<b>Lamps</b> LED 4000 K   CRI ≥ 80 <b>Controlgear</b> ECG-DALI CLO	
<b>Rated values</b>	Net luminous flux = 5560 lm Power consumption = 33.6 W Luminous efficacy = 165.5 lm/W	

**Luminous intensity in cd/klm** C180-0 C270-90 **Imax: 890 cd/klm**



Classifications	
DIN 5040	A 6 0
CIE	N1=83 N2=96 N3=99 N4=100 N5=100

Luminaire light output ratios	
$\eta_{LB}$	100.0%
$\phi_u$	100.0%
$\phi_o$	0.0%

Measurement conditions
DIN EN 13032 and DIN 5032

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<b>Table of values for luminous intensities</b>		<b>Maximum luminous intensity</b>
		<b>sITeco</b>

C-planes γ	0° 180°	15°	30°	45°	60°	75°	90° 270°	Phi-zone	Total Phi-zone
		165° 195° 345°	150° 210° 330°	135° 225° 315°	120° 240° 300°	105° 255° 285°			
Luminous intensity in cd/klm							Luminous flux in lm/klm		
0°	890.5	890.5	890.5	890.5	890.5	890.5	890.5	5.3	5.3
5°	883.0	882.3	875.7	876.1	880.2	881.2	883.8	42.0	47.4
10°	852.3	852.7	846.0	846.4	847.1	846.1	847.2	80.7	128.1
15°	806.0	807.1	800.6	798.1	793.1	786.0	783.9	113.0	241.1
20°	752.4	753.8	745.8	735.1	719.0	700.4	693.3	136.8	377.8
25°	677.7	678.7	666.2	642.3	616.2	594.6	587.5	147.9	525.7
30°	547.1	547.0	530.5	500.0	481.5	475.9	474.8	139.1	664.9
35°	364.4	363.5	349.1	327.1	328.9	340.7	345.9	108.2	773.0
40°	203.2	202.2	193.4	185.6	201.9	218.9	225.4	71.4	844.5
45°	108.8	108.0	102.7	103.7	123.9	139.5	144.1	45.5	890.0
50°	66.7	66.1	62.8	66.6	83.9	94.8	97.2	31.9	921.9
55°	45.6	45.3	45.3	49.0	60.9	67.0	67.8	24.3	946.1
60°	31.9	31.8	34.1	38.0	45.2	47.1	47.1	18.6	964.8
65°	21.6	21.7	24.8	28.3	33.6	33.2	32.9	14.0	978.8
70°	13.4	13.7	16.2	19.9	24.5	23.3	22.8	9.9	988.7
75°	7.5	7.7	9.1	12.7	16.1	15.5	14.8	6.4	995.1
80°	4.0	4.1	4.6	6.4	8.9	8.9	8.1	3.5	998.6
85°	1.9	1.8	2.0	2.6	3.4	3.5	3.0	1.4	1000.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1000.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1000.0

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<b>UGR-Table</b>	<b>Standard room</b>	<b>siteco</b>
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Reflection factor of ceiling	0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3	
Reflection factor of walls	0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3	
Reflection factor of floor	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	
Room dimensions	View crosswise (C0)					View endwise (C90)					
x	y										
2H	2H	16.9	18.2	17.3	18.5	18.9	17.8	19.2	18.2	19.5	19.8
	3H	17.1	18.3	17.5	18.6	18.9	18.3	19.5	18.7	19.8	20.2
	4H	17.1	18.2	17.5	18.5	18.9	18.5	19.6	18.9	19.9	20.3
	6H	17.1	18.1	17.5	18.5	18.9	18.6	19.6	19.1	20.0	20.4
	8H	17.2	18.0	17.6	18.4	18.8	18.8	19.6	19.2	20.0	20.4
	12H	17.2	18.0	17.6	18.4	18.8	18.8	19.5	19.2	19.9	20.3
4H	2H	17.1	18.1	17.5	18.5	18.9	17.9	19.0	18.3	19.3	19.7
	3H	17.4	18.2	17.8	18.6	19.1	18.6	19.5	19.0	19.9	20.3
	4H	17.4	18.2	17.9	18.6	19.1	18.9	19.7	19.3	20.1	20.5
	6H	17.4	18.1	17.9	18.6	19.0	19.1	19.8	19.6	20.2	20.7
	8H	17.5	18.1	17.9	18.5	19.0	19.2	19.8	19.6	20.2	20.7
	12H	17.5	18.0	18.0	18.4	18.9	19.2	19.7	19.7	20.2	20.7
8H	4H	17.5	18.1	18.0	18.6	19.1	18.9	19.5	19.4	20.0	20.4
	6H	17.6	18.1	18.1	18.5	19.0	19.2	19.7	19.7	20.2	20.7
	8H	17.6	18.0	18.1	18.5	19.0	19.3	19.7	19.8	20.2	20.7
	12H	17.6	17.9	18.1	18.4	19.0	19.4	19.7	19.9	20.2	20.8
12H	4H	17.6	18.1	18.1	18.5	19.0	18.9	19.4	19.4	19.9	20.4
	6H	17.6	18.0	18.1	18.5	19.0	19.2	19.6	19.7	20.1	20.6
	8H	17.6	18.0	18.1	18.5	19.0	19.3	19.6	19.8	20.2	20.7

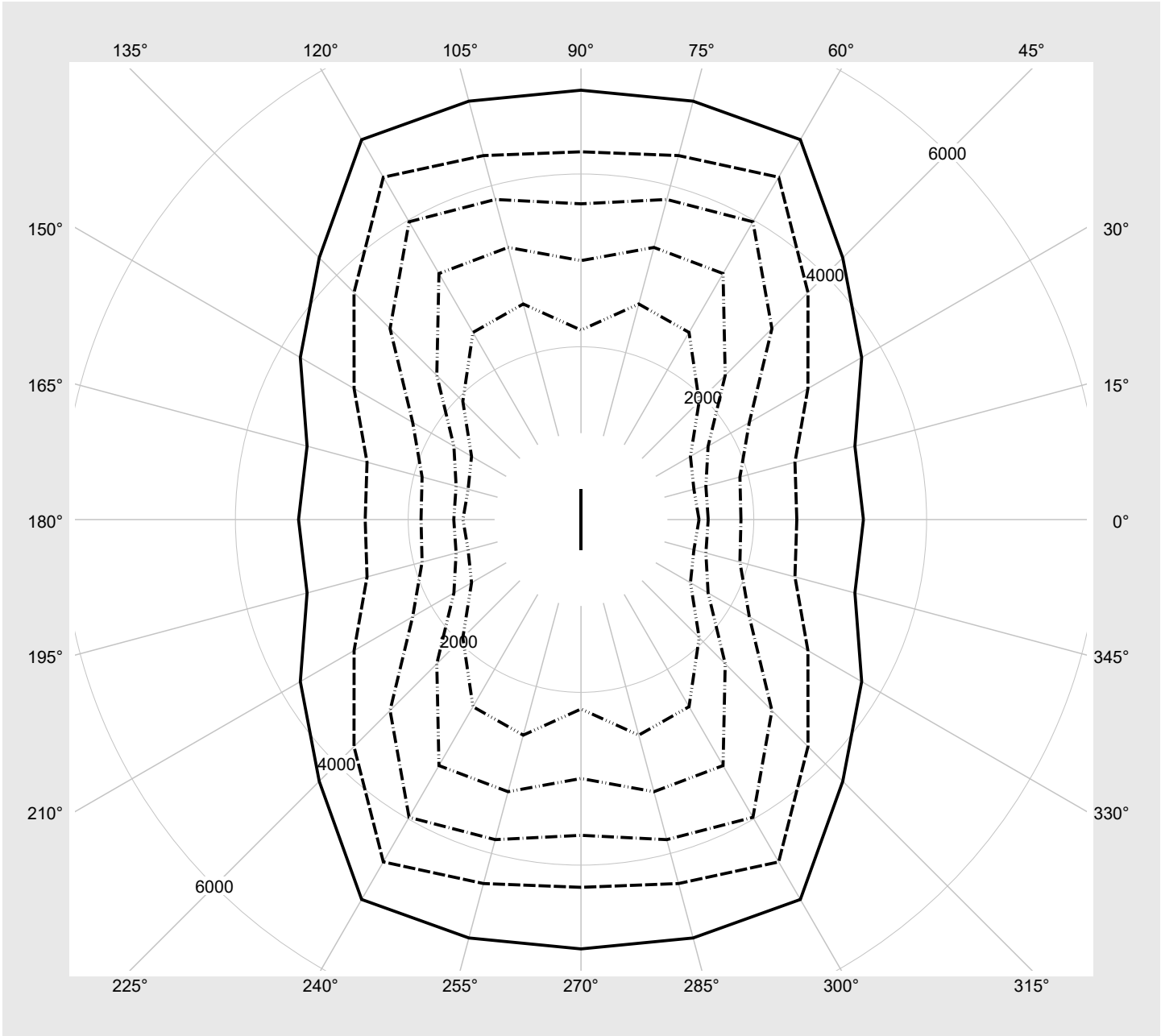
<b>Luminance table</b>	<b>Max. for <math>\gamma \geq 65^\circ</math></b>	<b>Photometric dimensions in mm:</b>	<b>L = 1500</b> <b>B = 58</b>
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C-planes	$\gamma$	Luminance in cd/m <sup>2</sup>							
		0° 180°	15° 165° 195° 345°	30° 150° 210° 330°	45° 135° 225° 315°	60° 120° 240° 300°	75° 105° 255° 285°	90° 270°	
45°		9835.5	9763.8	9277.9	9368.2	11200.4	12605.1	13027.3	
50°		6636.1	6571.9	6240.0	6624.2	8345.0	9425.1	9668.8	
55°		5079.3	5048.2	5051.0	5455.7	6780.6	7463.0	7553.4	
60°		4081.2	4061.0	4364.8	4861.2	5772.7	6019.4	6013.7	
65°		3269.1	3282.4	3751.1	4284.6	5077.8	5013.8	4969.8	
70°		2497.9	2563.8	3032.7	3715.6	4575.9	4361.7	4256.9	
75°		1851.4	1904.3	2249.7	3125.3	3979.9	3835.7	3654.9	
80°		1472.5	1496.4	1698.8	2360.6	3288.4	3261.1	2997.3	
85°		1366.1	1352.9	1462.9	1934.3	2501.2	2583.3	2193.2	

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**Luminance values in cd/m<sup>2</sup>**     γ 65°   γ 70°   γ 75°   γ 80°   γ 85°     **siteco**



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<b>Dimming levels table</b>	environmental temperature: 25°C	<b>siteco</b>
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Luminous flux %	Dimming level linear	Dimming level logarithmic	Luminous flux [lm]	Power consumption [W]	Power consumption [W]	Power consumption [W]
				start of lifetime	end of lifetime	average
100	254	254	5560	33.7	38.4	36.0
95	241	252	5289	32.0	36.5	34.2
90	227	250	4996	30.2	34.4	32.3
85	214	248	4725	28.6	32.6	30.6
80	201	245	4451	26.9	30.7	28.8
75	188	243	4167	25.3	28.7	27.0
70	175	240	3895	23.8	26.9	25.4
65	162	238	3615	22.1	25.0	23.6
60	149	234	3332	20.5	23.2	21.8
55	136	231	3050	18.9	21.3	20.1
50	124	228	2784	17.3	19.6	18.5
45	111	224	2497	15.6	17.8	16.7
40	99	219	2231	14.3	16.0	15.2
35	86	214	1939	12.6	14.2	13.4
30	74	209	1670	11.1	12.4	11.8
25	62	202	1398	9.7	10.8	10.2
20	49	194	1103	8.2	9.1	8.6
15	37	183	828	6.7	7.3	7.0
10	25	169	552	5.2	5.6	5.4
5	13	145	281	3.8	4.0	3.9
3	8	127	167	3.1	3.3	3.2